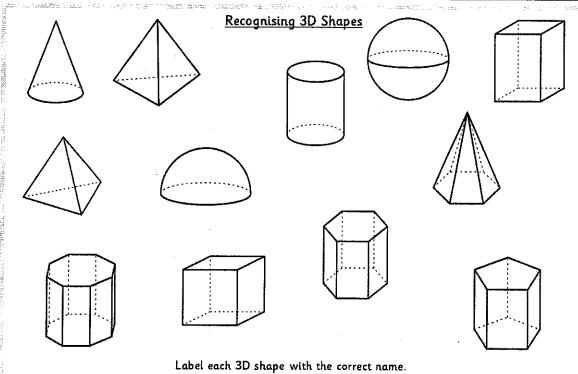
| | UNIT 4: 3D Figures and Geometry | Assignment |
|---------------|---|------------|
| 5/7 Mon | Volume and Surface Area Flipbook and Models | |
| 5/8 Tues | Volume of Prisms and Cylinders Page 1-3 | |
| 5/9 Wed | Volume of Pyramids and Cones Pages 4-5 | |
| 5/10 Thurs | Surface Area of Prisms and Cylinders Pages 6-7 | |
| 5/11 Fri | Surface Area of Pyramids and Cones Pages 8-9 | |
| 5/14 Mon | Spheres and Hemispheres Pages 10-11 | |
| 5/15 Tues | Review | |
| 5/16 Wed | Test/Project | |
| 5/10 Thurs | Project | |
| 5/11 Fri | Project Due | |



Student Edition Pages 607-613

Practice

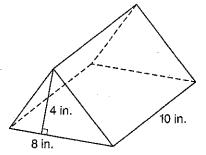
Volume of Prisms and Cylinders

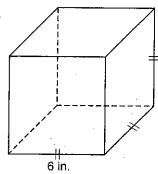
Find each of the following. Round to the nearest tenth.

- 1. the volume of a right prism whose square base has sides of 4 feet and whose height is 9 feet
- 2. the volume of a cylinder with a height of 2 meters and a radius of 0.5 meters

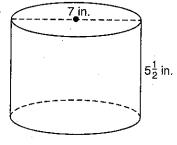
Find the volume of each solid. Round to the nearest tenth.

3.

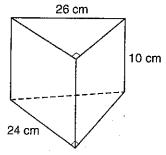


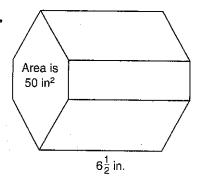


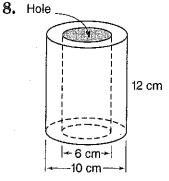
5.



6.

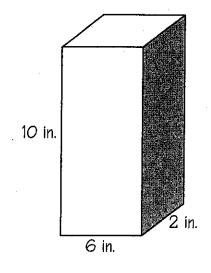


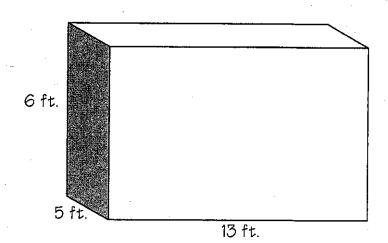


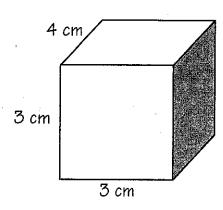


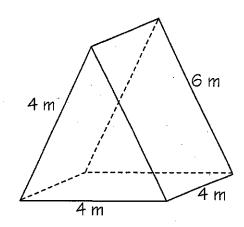
Denegged fedill[®] sebnow no yell where egasbrid edi fiel doe nedw

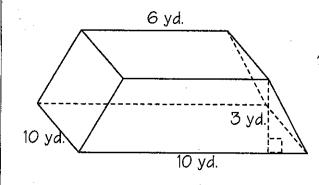
Find the volume. Round your answers to the nearest tenth. Cross out the letters that match your answers. The remaining letters will allow you to figure out the joke.

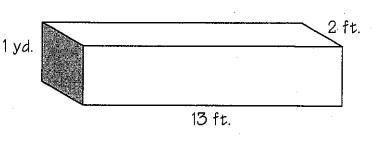












I B P A O L N Y G E O N T 120 240 27 27.7 210.3 480 78 81.5 244 36 72 200 390

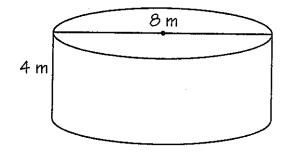
ANSWER:

Three-Dimensional Shapes - Prisms - Volume

Play on Words: "What the acom is to the oak."

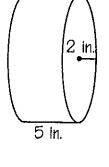
Find the volume and keep your answers in exact terms with pi as part of your answer. Cross out the letters that match your answers.

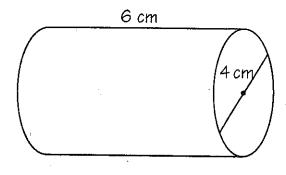
The remaining letters will allow you to figure out the joke.

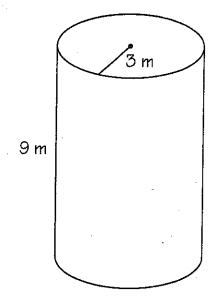


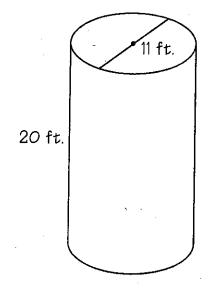
7777777

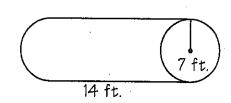
9











Τ Η R O N E A W 5 U O N Υ 27π 686π 16π 64π 605π 10π 9π 20π 625π 81π 40π 125π 24π

ANSWER:

Three-Dimensional Shapes — Cylinders - Volume

Practice

Volume of Pyramids and Cones

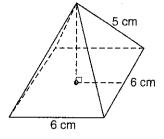
- Find the volume of each pyramid. Round to the nearest tenth.
 The base has an area of 84.3 square centimeters, and the height is 16.4 centimeters
 - 2. The base has an area of 17 square feet, and the height is 3 feet.

Find the volume of each cone. Round to the nearest tenth.

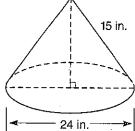
- 3. The base has a radius of 16 centimeters, and the height is 12 centimeters
- 4. The base has a diameter of 24 meters, and the height is 15.3 meters

Find the volume of each solid. Round to the nearest tenth.

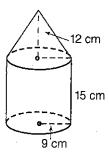
5.

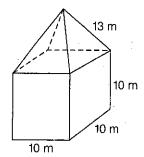


6.



7.



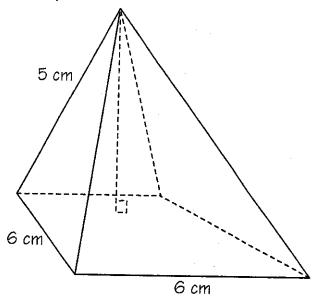


What country makes you shiver?

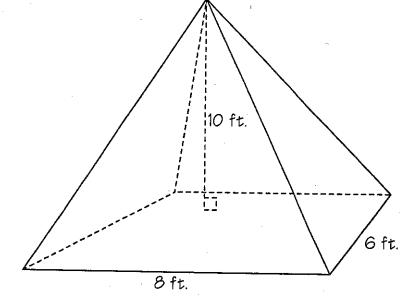
Find both the volume and surface area. Round your answers to the nearest hundredth. Cross out the letters that match your answers.

The remaining letters will allow you to figure out the joke.

The diagram is a right square pyramid.



The diagram is a right rectangular pyramid.



I C H A E I L A E 196.14 85.34 75.25 84 160 125.5 86.4 31.75 45.94

ANSWER:

Three-Dimensional Shapes — Pyramids - Surface Area and Volume

(5)

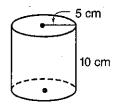
Student Edition Pages 591–598

Practice

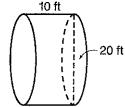
Surface Area of Prisms and Cylinders

Use the right cylinders shown to answer each of the following. Express all answers in terms of π .

- 1. Find the circumference of the base.
- 2. Find the lateral area.
- 3. Find the area of a base.
- 4. Find the surface area.

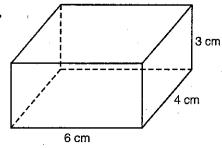


- **5.** Find the circumference of the base.
- 6. Find the lateral area.
- 7. Find the area of a base.
- 8. Find the surface area.

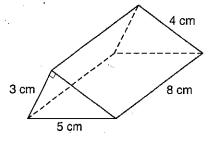


Find the Jateral area and the surface area of each right prism. Round to the nearest tenth.

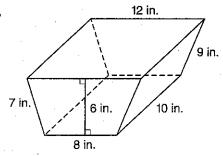
9.



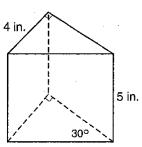
10.



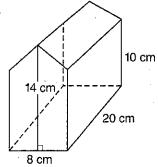
11.

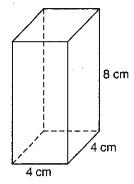


12.



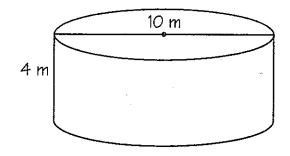
13.

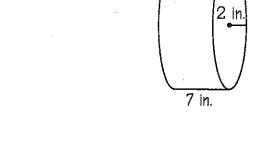


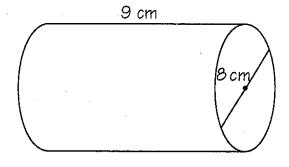


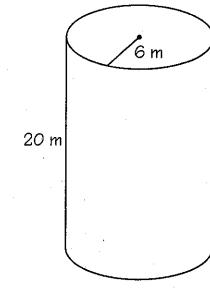
Play on Words: "What do you call two physicisms?"

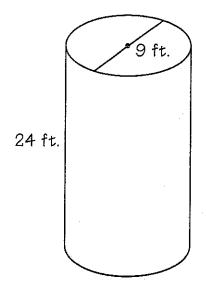
Find the surface area. Round your answers to the nearest tenth with pi as part of your answer. Cross out the letters that match your answers. The remaining letters will allow you to figure out the joke.

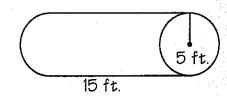












S P A C E R A M D O Y X N 312π 50.5π 24π 104π 200π 125.5π 120π 256.5π 18π 100π 90π 81π 36π

ANSWER:



Three-Dimensional Shapes — Cylinders - Surface Area

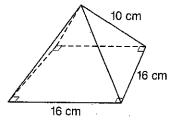
Practice

Student Edition Pages 599–606

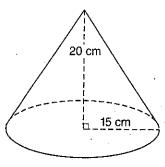
Surface Area of Pyramids and Cones

Find the lateral area of each regular pyramid or right cone. Round to the nearest tenth.

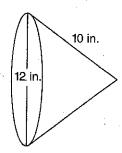
1.



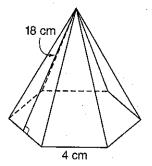
2.



3.

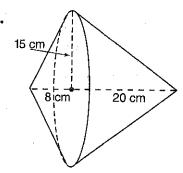


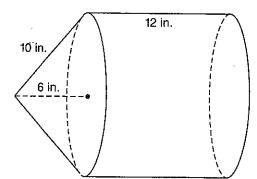
4



Find the surface area of each solid. Round to the nearest tenth.

5.

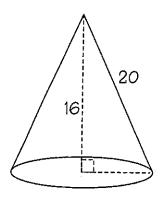




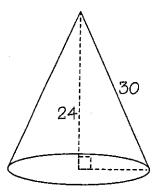


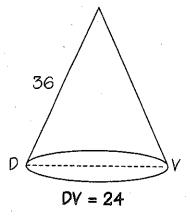
Play on Words: "What piece of clothing would stop Aunt Bertha from looking so ugly?"

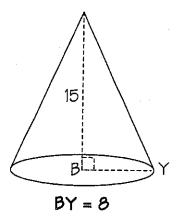
Find the surface area. Round your final answers to the nearest tenth with pi as part of your answer. Cross out the letters that match your answers. The remaining letters will allow you to figure out the joke.

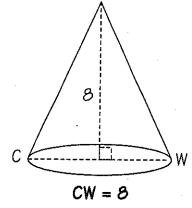


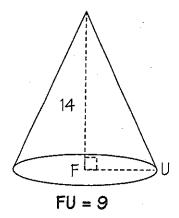
1990











A S E V T A O M I L N 104.5π 51.8π 576π 678π 230.8π 302.7π 384π 864π 746π 94.3π 200π

ANSWER:

(9)

Three-Dimensional Shapes — Right Circular Cones - Surface Area

Practice

Student Edition Pages 621–628

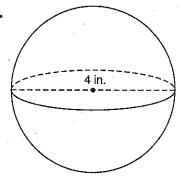
Surface Area and Volume of Spheres

Find the surface area and volume of each sphere described below. Round to the nearest tenth.

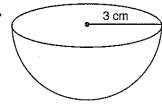
- 1. The diameter is 100 centimeters.
- 2. A great circle has a circumference 83.92 meters.
- 3. The radius is 12 inches long.
- 4. A great circle has an area of 70.58 square feet.

Find the surface area and volume of each solid. Round to the nearest tenth.

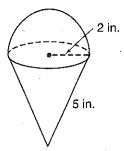
5.

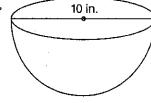


6.



7.

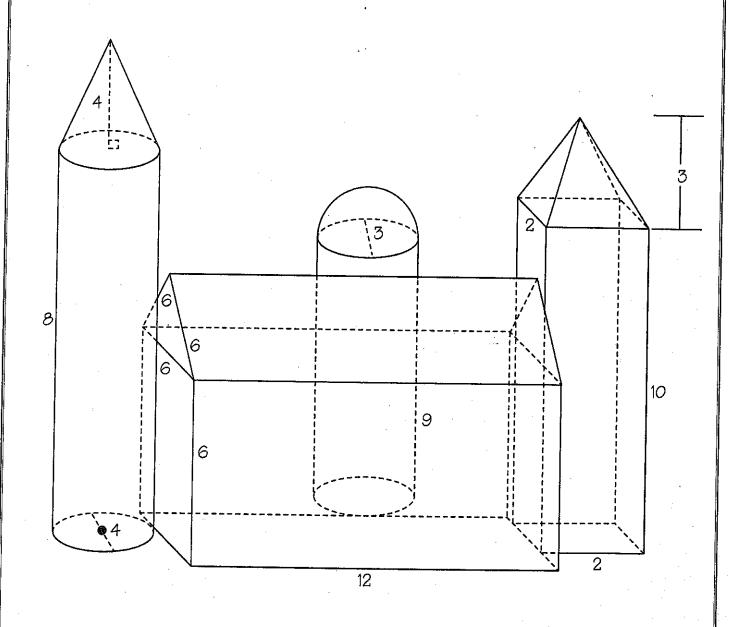






Selizas edi io emulov edi zi izdW

Find the volume. Round your answer to the nearest hundredth.



V = _____

(11)

Joke #46

Three-Dimensional Shapes — Volume Challenge